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Molecular mechanisms of dengue virus infection

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Stellingen

behorende bij het proefschrift

'Molecular Mechanisms of Dengue virus infection'

1. The fact that a small increase in fusion activity can have dramatic effects stresses the miraculous ingeniosity of dengue virus, and our lack of imaginity.
This thesis

2. The antibody-driven tropism of dengue for macrophages can contribute to prolonged disease.
This thesis, & P. Borrow et al. (1995) *J. Virol.* 69(2): 1059 – 1070.

3. Interferon is not inherent to *intrinsic* ADE.
This thesis, contrary to Halstead, S.B. (2014) "'Dengue antibody-dependent enhancement: knowns and unknowns. *Microbiol. Spectrum* 2(6): AID-0022-2014. doi:10.1128/microbiolspec.AID-0022-2014.

4. The correlate of protection for a dengue vaccine should not be discussed while we still have not defined protection itself.
This thesis, and based on: Undurraga, E.A. et al. (2015) PLoS Negl. Trop. Dis.

5. Theoretically, it is unethical to continue the dengue vaccine trials without a proper 'correlate of protection'. Practically, it goes against one's ethics to be so theoretical.
Based on: Plotkin, S.A. (2010) Clin. Vaccine Immunol. 17: 1055 – 1065

6. It is better to be infected before being vaccinated.
This thesis

7. Primary human cells are more informative to study pathogenesis since they better reflect the in vivo host – pathogen interactions, and donor variances. Therefore, results from primary cells should be more appreciated.

8. Apparently, males exist since they complement women.
Based on: Rasmus Nielsen (2006) Science 311: 960 – 961

9. Pessimists are careful optimists.

Jacky Flipse, 26 oktober 2015